CLAIMS:

1. A compressor system comprising:

an enclosure having a base;

a motor mounted to the base, wherein the motor is disposed within the enclosure;

an airend movably pivotally mounted with respect to the base and with respect to the motor, wherein the airend is disposed within the enclosure; and

a drive system interconnecting the motor and the airend to transmit power from the motor to the airend.

2. The compressor system of claim 1, and further including a separator tank pivotally mounted to the base, the separator tank being disposed within the enclosure, and the airend being mounted on the separator tank for movement with the separator tank with respect to the base.

3. The compressor system of claim 2, wherein the separator tank is a substantially cylindrical container having a longitudinal axis and the separator tank being mounted such that the longitudinal axis extends in a substantially horizontal direction.

4. The compressor system of claim 2, wherein the separator tank has maintenance service points disposed on the side of the separator tank near the enclosure, and facing away from the motor.

5. The compressor system of claim 2, wherein the airend is rigidly directly connected to the separator tank, and the airend and separator tank comprise a single unit.

6. The compressor system of claim 2, wherein the separator tank is made of cast iron, and the separator tank supports the airend.

7. The compressor system of claim 1, wherein the drive system includes a first pulley coupled to the motor, a second pulley coupled to the airend, and a belt interconnected to the first pulley and second pulley, wherein rotation of the first pulley causes the second pulley to rotate.

8. The compressor system of claim 7, wherein the airend pivots with respect to the motor to adjust the tension of the belt.

9. The compressor system of claim 1, wherein the motor is a dual shafted motor having a drive side shaft extending from a first end of the motor, and a non-drive side shaft extending from a second end of the motor opposite the first end, wherein the drive side shaft is interconnected to the drive system that powers the airend, and the non-drive side shaft is interconnected to an impeller.

10. The compressor of claim 9, wherein an inlet cone is disposed near the impeller, and the impeller creates an air flow within the enclosure.

11. A compressor system comprising:

an enclosure having a base;

a motor rigidly mounted to the base, wherein the motor has an output shaft;

an airend disposed within the enclosure and drivingly connected to the output shaft so as to be driven by the output shaft; and

an impeller directly coupled to the output shaft and driven by the output shaft.

12. The compressor system of claim 11, wherein the airend is pivotally mounted with respect to the base.

13. The compressor system of claim 11, wherein the airend has an airend shaft, and the airend shaft is substantially parallel to the output shaft.

14. The compressor system of claim 11, wherein the airend is directly mounted to a separator tank, and the separator tank is pivotally coupled to the base, wherein the airend and separator tank may pivot with respect to the motor.

15. The compressor system of claim 14, wherein the separator tank is mounted substantially horizontally.

16. The compressor system of claim 14, wherein the separator tank supports the airend.

17. The compressor system of claim 14, wherein the separator tank is made from cast iron.

18. The compressor system of claim 14, wherein the separator tank has maintenance service points disposed on the side of the separator tank near the enclosure, and facing away from the motor.

19. The compressor system of claim 11, further comprising a drive system interconnected to the motor and the airend, wherein the drive system transfers power from the motor to the airend.

20. The compressor system of claim 19, wherein the drive system includes a first pulley coupled to output shaft of the motor, a second pulley coupled to the drive shaft of the airend, and a belt interconnected to the first pulley and second pulley, wherein rotation of the first pulley causes the second pulley to rotate.

21. The compressor system of claim 20, wherein the output shaft includes a drive side shaft extending from a first end of the motor, and a non-drive side shaft extending from a second end of the motor opposite the first end, wherein the drive side shaft is interconnected to the drive system that powers the airend, and the non-drive side shaft is interconnected to the impeller.

22. The compressor of claim 20, wherein an inlet cone is disposed near the impeller, and the impeller creates an air flow within the enclosure.